

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

5/a
11-4-02
D. Bell

In re application of

Yoshiro SHIOKAWA

Serial No. NEW

Filed April 3, 2001

Attn: Application Branch

Attorney Docket No. 2001-0394A

Q-POLE TYPE MASS SPECTROMETER

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents,
Washington, DC 20231

Sir:

Prior to examination of the above-referenced U.S. patent application please amend the application as follows:

IN THE CLAIMS

Please amend the claims as follows:

6. (Amended) The Q-pole type mass spectrometer according to claim 2, characterized in that upon control on the motion of ion to be measured in the axial direction within the Q-pole region, Coulomb force is employed, the said Coulomb force is generated by electric field formed by four Q-poles composing the Q-pole type mass spectrometer, so constructed that four Q-poles have an equal DC potentials except DC voltage: U at the same position in the axial direction of each Q-pole of four Q-poles, while the each Q-pole of four Q-poles has different DC potentials depending on their positions in the axial direction.

8. (Amended) The Q-pole type mass spectrometer according to claim 2, characterized in that control on the motion of ion to be measured in the axial direction within the